Br. J. Cancer (1993), **67**, 1445–1452

© Macmillan Press Ltd., 1993

Cumulative Contents

Volume 67, No. 1 January 1993

Experimental Oncology

1 Blood flow modification by nicotinamide and metoclopramide in mouse tumours growing in different sites
Hirst, D.G., Joiner, B. & Hirst, V.K.

7 Epidermal growth factor receptor in breast cancer. Comparison with non-malignant breast tissue
Dittadi, R., Donisi, P.M., Brazzale, A., Cappellozza, L., Bruscagnin, G. & Gion, M.

10 2 Chlorodeoxyadenosine activity and cross resistance patterns in primary cultures of human hematologic neoplasms
Nagourney, R.A., Evans, S.S., Messenger, J.C., Zhuang Su, Y. & Weisenthal, L.M.

15 Humoral mediation for cachexia in tumour-bearing rats
Tessitore, L., Costelli, P. & Baccino, F.M.

24 Acquisition of platinum drug resistance and platinum cross resistance patterns in a panel of human ovarian carcinoma xenografts
Jones, M., Siracky, J., Kelland, L.R. & Harrap, K.R.

30 Regulation of initial vinblastine influx by P-glycoprotein
Shalinsky, D.R., Jekunen, A.P., Alcaraz, J.E., Christen, R.D., Kim, S., Khatibi, S. & Howell, S.B.

37 Expression of the proto-oncogenes c-*met* and c-*kit* and their ligands, hepatocyte growth factor/scatter factor and stem cell factor, in SCLC cell lines and xenografts
Rygaard, K., Nakamura, T. & Spang-Thomsen, M.

47 A murine monoclonal antibody, MoAb HMSA-5, against a melanosomal component highly expressed in early stages, and common to normal and neoplastic melanocytes
Der, J.E., Dixon, W.T., Jimbow, K. & Horikoshi, T.

58 Nonspecific crossreacting antigen (NCA) is a major member of the carcinoembryonic antigen (CEA)-related gene family expressed in lung cancer
Hasegawa, T., Isobe, K., Tsuchiya, Y., Oikawa, S., Nakazato, H., Nakashima, I. & Shimokata, K.

66 Deoxyribonuclease treatment prevents blood-borne liver metastasis of cutaneously transplanted tumour cells in mice
Sugihara, S., Yamamoto, T., Tanaka, H., Kambara, T., Hiraoka, T. & Miyauchi, Y.

71 Cervical carcinoma: low frequency of allele loss at loci implicated in other common malignancies
Busby-Earle, R.M.C., Steel, C.M. & Bird, C.C.

76 Sulfolipids and glycolipid sulfotransferase activities in human renal cell carcinoma cells
Kobayashi, T., Honke, K., Kamio, K., Sakakibara, N., Gasa, S., Miyao, N., Tsukamoto, T., Ishizuka, I., Miyazaki, T. & Makita, A.

81 pH dependent cytotoxicity of N-dodecylimidazole: a compound that acquires detergent properties under acidic conditions
Boyer, M.J., Horn, I., Firestone, R.A., Steele-Norwood, D. & Tannock, I.F.

88 The TP53 tumour suppressor gene in colorectal carcinomas. I. Genetic alterations on chromosome 17
Meling, G.I., Lothe, R.A., Børresen, A.-L., Graue, C., Hauge, S., Clausen, O.P.F. & Rognum, T.O.

93 The TP53 tumour suppressor gene in colorectal carcinomas. II. Relation to DNA ploidy pattern and clinicopathological variables
Meling, G.I., Lothe, R.A., Børresen, A.-L., Graue, C., Hauge, S., Clausen, O.P.R. & Rognum, T.O.

99 Dexamethosone decreases urokinase plasminogen activator mRNA stability in MAT 13762 rat mammary carcinoma cells
Henderson, B.R. & Kefford, R.F.

102 Micronucleus formation in human tumour cells: lack of correlation with radiosensitivity
Bush, C. & McMillan, T.J.

107 Proliferative behaviour of an oestrogen sensitive rat mammary tumour: evidence for a paracrine interaction between tumour and stroma
Ormerod, M.G., Titley, J.C., Smith, T.A.D., Tombs, A.L. & Eccles, S.

Clinical Oncology/Epidemiology

112 A randomised phase II trial of epirubicin and 5-fluorouracil versus cisplatinum in the palliation of advanced and recurrent malignant tumour of the salivary glands
Jones, A.S., Phillips, D.E., Cook, J.A. & Helliwell, T.R.

115 Pedunculated hepatocellular carcinoma and surgical treatment
Nishizaki, T., Matsumata, T., Adachi, E., Hayashi, H. & Sugimachi, K.

119 Double megatherapy and autologous bone marrow transplantation for advanced neuroblastoma: the LMCE2 study
Philip, T., Ladenstein, R., Zucker, J.M., Pinkerton, R., Bouffet, E., Louis, D., Siegert, W., Bernard, J.L., Frappaz, D., Coze, C., Wyss, M., Beck, D., Soulliet, G., Michon, J., Philip, I., Chauvin, F., Favrot, M. & Biron, P.

128 Diagnosis of Ewing's sarcoma and peripheral neuroectodermal tumour based on the detection of t(11;22) using fluorescence *in situ* hybridisation
Taylor, C., Patel, K., Jones, T., Kiely, F., De Stavola, B.L. & Sheer, D.

134 DNA ploidy and S-phase in primary malignant melanoma as prognostic factors for stage III disease
Karlsson, M., Boeryd, B., Carstensen, J., Kågedal, B., Ternesten Bratel, A. & Wingren, S.

139 2′-Chlorodeoxyadenosine: evaluation of a novel predominantly lymphocyte selective agent in lymphoid malignancies
Hickish, T., Serafinowski, P., Cunningham, D., Oza, A., Dorland, E., Judson, I., Millar, B.C., Lister, T.A. & Roldan, A.

144 Treatment of recurrent and cystic malignant gliomas by a single intracavity injection of ^{131}I monoclonal antibody: feasibility, pharmacokinetics and dosimetry
Papanastassiou, V., Pizer, B.L., Coakham, H.B., Bullimore, J., Zananiri, T. & Kemshead, J.T.

152 Epidermal growth factor and transforming growth factor α concentrations in BPH and cancer of the prostate: their relationship with tissue androgen levels
Yang, Y., Chisholm, G.D. & Habib, F.K.

156 Cisplatin-associated anaemia treated with subcutaneous erythropoietin. A pilot study
Cascinu, S., Fedeli, A., Luzi Fedeli, S. & Catalano, G.

159 A pilot study of EVAP/ABV chemotherapy in 25 newly diagnosed children with Hodgkin's disease
Ekert, H., Fok, T., Dalla-Pozza, L., Waters, K., Smith, P. & White, L.

163 Immunomodulation during prolonged treatment with combined interleukin-2 and interferon-alpha in patients with advanced malignancy
von Rohr, A., Ghosh, A.K., Thatcher, N. & Stern, P.L.

172 Colorectal adenomas and energy intake, body size and physical activity: a case-control study of subjects participating in the Nottingham faecal occult blood screening programme
Little, J., Logan, R.F.A., Hawtin, P.G., Hardcastle, J.D. & Turner, I.D.

177 Colorectal adenomas and diet: a case-control study of subjects participating in the Nottingham faecal occult blood screening programme
Little, J., Logan, R.F.A., Hawtin, P.G., Hardcastle, J.D. & Turner, I.D.

185 Hodgkin's disease diagnosed post mortem: A population based study
Hasle, H. & Mellemgaard, A.

190 Dose intensity analysis in advanced ovarian cancer patients
Torri, V., Korn, E.L. & Simon, R.

Meeting Report

198 Cancer Research Campaign review of radiobiology research
Horwich, A.

Book Reviews

202 Oral contraceptives and breast cancer. *Kinlen, L.J.*
Cancer patient care: psychosocial treatment methods. *Cody, M.*
Testicular cancer – investigation and management. *Sikora, K.*
Introduction to radiobiology. *Falk, S.*
A handbook of essential drugs and regimens in hematological oncology. *Rohatiner, A.*

Volume 67, No. 2 February 1993

Review

205 Apoptosis (The 1992 Frank Rose Memorial Lecture)
Wyllie, A.H.

Experimental Oncology

209 2'-deoxy-5-azacytidine increases binding of cisplatin to DNA by a mechanism independent of DNA hypomethylation
Ellerhorst, J.A., Frost, P., Abbruzzese, J.L., Newman, R.A. & Chernajovsky, Y.

216 Dosage and cycle effects of dacarbazine (DTIC) and fotemustine on O^6-alkylguanine-DNA alkyltransferase in human peripheral blood mononuclear cells
Lee, S.M., Thatcher, N., Dougal, M. & Margison, G.P.

222 The clonogenic growth of advanced breast tumour lesions adds no value to that of established clinical prognosticators for survival
Hug, V., Polyzos, A., Tucker, S. & Thames, H.

226 Effect of anthracycline analogs on photolabelling of P-glycoprotein by [^{125}I]iodomycin and [^{3}H]azidopine: Relation to lipophilicity and inhibition of daunorubicin transport in multidrug resistant cells
Friche, E., Demant, E.J.F., Sehested, M. & Nissen, N.I.

232 Effects of suramin on cell-cycle kinetics of MCF-7 human breast cancer cells *in vitro*
Foekens, J.A., Sieuwerts, A.M., Stuurman-Smeets, E.M.J., Peters, H.A. & Klijn, J.G.M.

237 Characterisation and clinical usefulness of CA130 antigen recognised by monoclonal antibodies, 130-22 and 145-9, in ovarian cancers
Kobayashi, H., Ohi, H., Fujii, T. & Terao, T.

244 Infrequent chromosome allele loss in fibrolamellar carcinoma
Ding, S.-F., Delhanty, J.D.A., Bowles, L., Dooley, J.S., Wood, C.B. & Habib, N.A.

247 The human EGF receptor as a target for cancer therapy: six new rat mAbs against the receptor on the breast carcinoma MDA-MB 468
Modjtahedi, H., Styles, J.M. & Dean, C.J.

254 Immunotherapy of human tumour xenografts overexpressing the EGF receptor with rat antibodies that block growth factor-receptor interaction
Modjtahedi, H., Eccles, S., Box, G., Styles, J. & Dean, C.

262 Syrian hamster embryo cell lines useful for detecting transforming genes in mouse tumours: detection of transforming genes in X-ray-related mouse tumours
Sasai, H., Higashi, T., Nakamori, S., Miyoshi, J., Suzuki, F., Nomura, T. & Kakunaga, T.

268 Loss of heterozygosity and amplification on chromosome 11q in human ovarian cancer
Foulkes, W.D., Campbell, I.G., Stamp, G.W.H. & Trowsdale, J.

274 Chemotherapeutic efficacy of the protein-doxorubicin conjugates on multidrug resistant rat hepatoma cell line *in vitro*
Ohkawa, K., Hatano, T., Tsukada, Y. & Matsuda, M.

279 Inhibition of human pancreatic cancer cell (MIA PaCa-2) growth by cholera toxin and 8-chloro-cAMP *in vitro*
Ohmura, E., Wakai, K., Isozaki, O., Murakami, H., Onoda, N., Emoto, N., Shizume, K., Tsushima, T., Demura, H. & Robins, R.K.

284 Cortisol is transported by the multidrug resistance gene product P-glycoprotein
van Kalken, C.K., Broxterman, H.J., Pinedo, H.M., Feller, N., Dekker, H., Lankelma, J. & Giaccone, G.

290 Growth arrest of the breast cancer cell line, T47D, by TNFα; cell cycle specificity and signal transduction
Pusztai, L., Lewis, C.E. & McGee, J.O'D

297 Therapeutic potential of analogues of amiloride: inhibition of the regulation of intracellular pH as a possible mechanism of tumour selective therapy
Maidorn, R.P., Cragoe, E.J. & Tannock, I.F.

304 A recombinant single chain antibody interleukin-2 fusion protein
Savage, P., So, A., Spooner, R.A. & Epenetos, A.A.

311 Differential cytotoxicity of 19 anticancer agents in wild type and etoposide resistant small cell lung cancer cell lines
Jensen, P.B., Christensen, I.J., Sehested, M., Hansen, H.H. & Vindeløv, L.

321 Metabolism of the bioreductive cytotoxin SR 4233 by tumour cells: enzymatic studies
Wang, J., Biedermann, K.A., Wolf, C.R. & Brown, J.M.

Clinical Oncology/Epidemiology

326 Completeness of cancer registration in England and Wales: an assessment based on 2,145 patients with Hodgkin's disease independently registered by the British National Lymphoma Investigation
Swerdlow, A.J., Douglas, A.J., Vaughan Hudson, G. & Vaughan Hudson, B.

330 Thyroid cancer epidemiology in England and Wales: time trends and geographical distribution
dos Santos Silva, I. & Swerdlow, A.J.

341 A daily diary for quality of life measurement in advanced breast cancer
Fraser, S.C.A., Ramirez, A.J., Ebbs, S.R., Fallowfield, L.J., Dobbs, H.J., Richards, M.A., Bates, T. & Baum, M.

347 Risk of leukaemia after chemotherapy in a case-control study in Moscow
Zaridze, D.G., Arkadieva, M.A., Day, N.E. & Duffy, S.W.

351 Age, socio-economic status and survival from cancer of cervix in the West of Scotland 1980–87
Lamont, D.W., Symonds, R.P., Brodie, M.M., Nwabineli, N.J. & Gillis, C.R.

358 Uptake and retention of estramustine and the presence of estramustine binding protein in malignant brain tumours in humans
Bergenheim, A.T., Gunnarsson, P.O., Edman, K., von Schoultz, E., Hariz, M.I. & Henriksson, R.

362 Preclinical, phase I and pharmacokinetic studies with the dimethyl phenyltriazene CB10-277
Foster, B.J., Newell, D.R., Carmichael, J., Harris, A.L., Gumbrell, L.A., Jones, M., Goodard, P.M. & Calvert, A.H.

369 Phase I trial with pharmacokinetics of CB10-277 given by 24 hours continuous infusion
Foster, B.J., Newell, D.R., Gumbrell, L.A., Jenns, K.E. & Calvert, A.H.

374 Breast cancer prognosis is poor when total plasminogen activator activity is low
Yamashita, J., Ogawa, M., Inada, K., Yamashita, S., Nakashima, Y., Saishoji, T. & Nomura, K.

379 Hormonal treatment of pancreatic carcinoma: a phase II study of LHRH agonist goserelin plus hydrocortisone
Philip, P.A., Carmichael, J., Tonkin, K., Buamah, P.K., Britton, J., Dowsett, M. & Harris, A.L.

383 Autologous transplantation in poor risk Hodgkin's disease using high dose melphalan/etoposide conditioning with non-cryopreserved marrow rescue
Taylor, P.R.A., Jackson, G.H., Lennard, A.L., Lucraft, H., Proctor, S.J. on behalf of the Newcastle and Northern Region Lymphoma Group

388 Oral piritrexim, an effective treatment for metastatic urothelial cancer
de Wit, R., Kaye, S.B., Roberts, J.T., Stoter, G., Scott, J. & Verweij, J.

391 Multiple primary cancers in the Vaud Cancer Registry, Switzerland, 1974–89
Levi, F., Randimbison, L., Te, V.-C., Rolland-Portal, I., Franceschi, S. & La Vecchia, C.

396 A phase I study of 1,2-diamminomethyl-cyclobutane-platinum (II)-lactate (D-19466; lobaplatin) administered daily for 5 days
Gietema, J.A., de Vries, E.G.E., Sleijfer, D. Th., Willemse, P.H.B., Guchelaar, H.-J., Uges, D.R.A., Aulenbacher, P., Voegeli, R. & Mulder, N.H.

402 Combination or mild single agent chemotherapy for advanced breast cancer? CMF *vs* epirubicin measuring Quality of Life
Fraser, S.C.A., Dobbs, H.J., Ebbs, S.R., Fallowfield, L.J., Bates, T. & Baum, M.

Correspondence

407 High-dose folinic acid with 5-fluorouracil bolus and continuous infusion in the treatment of advanced gastric and oesophageal adenocarcinoma
Highley, M.S., Hill, M.E., Ziras, N., Samandas, N., Mason, R.C., Owen, W., Dussek, J., Barker, S. & Harper, P.G.

Book Reviews

409 Urological Oncology – Dilemmas and Developments, *Clark, P.I.*

Environment Tobacco Smoke and Mortality, *Law, M.R.*

A Dictionary of Modern Medicine, *Twentyman, P.R.*

Prospects for Antisense Nucleic Acid Therapy of Cancer and AIDS, *Tidd, D.M.*

The Macrophage, *Embleton, M.J.*

Volume 67, No. 3 March 1993

Hypothesis

413 Stem cell origins of leukaemia and curability
Greaves, M.F.

Review

424 Garlic and its significance for the prevention of cancer in humans: a critical review
Dorant, E., van den Brandt, P.A., Goldbohm, R.A., Hermus, R.J.J. & Sturmans, F.

Experimental Oncology

430 P-glycoprotein expression in normal and reactive bone marrows
Hegewisch-Becker, S., Fliegner, M., Tsuruo, T., Zander, A., Zeller, W. & Hossfeld, D.K.

436 Characterisation of a humanised bispecific monoclonal antibody for cancer therapy
Bruynck, A., Seemann, G. & Bosslet, K.

441 Pre-clinical evaluation of a novel chloroethylating agent, Clomesone
Matthew, A.M., Phillips, R.M., Loadman, P.M. & Bibby, M.C.

447 Tumour growth inhibition in mice by glycosylated recombinant human lymphotoxin: Analysis of tumour- regional mononuclear cells involved with its action
Funahashi, I., Watanabe, H., Abo, T., Indo, K. & Miyaji, H.

456 Novel selection and genetic characterisation of an etoposide-resistant human leukaemic CCRF-CEM cell line
Patel, S. & Fisher, L.M.

464 Carcinoembryonic antigen: enhancement of liver colonisation through retention of human colorectal carcinoma cells
Jessup, J.M., Petrick, A.T., Toth, C.A., Ford, R., Meterissian, S., O'Hara, C.J., Steele Jr, G. & Thomas, P.

471 Selective modulation of vinblastine sensitivity by 1,9-dideoxyforskolin and related diterpenes in multidrug resistant tumour cells
Shalinsky, D.R., Heath, D.D., Jekunen, A.P., Alcaraz, J.E. & Howell, S.B.

480 Cytophotometric DNA content and argyrophilic nucleolar organiser regions of oesophageal carcinoma
Morita, M., Kuwano, H., Tsutsui, S., Ohno, S., Matsuda, H. & Sugimachi, K.

486 Carbohydrate structures of human α-fetoprotein of patients with hepatocellular carcinoma: presence of fucosylated and non-fucosylated triantennary glycans
Aoyagi, Y., Suzuki, Y., Igarashi, K., Saitoh, A., Oguro, M., Yokota, T., Mori, S., Suda, T., Isemura, M. & Asakura, H.

493 Different HSP70 expression and cell survival during adaptive responses of 3T3 and transformed 3T3 cells to osmotic stress
Petronini, P.G., Alfieri, R., De Angelis, E., Campanini, C., Borghetti, A.F. & Wheeler, K.P.

500 Epithelial cell proliferation in the sigmoid colon of patients with adenomatous polyps increases during oral calcium supplementation
Kleibeuker, J.H., Welberg, J.W.M., Mulder, N.H., van der Meer, R., Cats, A., Limburg, A.J., Kreumer, W.M.T., Hardonk, M.J. & de Vries, E.G.E.

504 Neuroblastoma in a transgenic mouse carrying a metallothionein/*ret* fusion gene
Iwamoto, T., Taniguchi, M., Wajjwalku, W., Nakashima, I. & Takahashi, M.

508 Neutrophil chemotactic factors produced by malignant fibrous histiocytoma cell lines
Yoshida, M., Matsuzaki, H., Hata, H., Matsuno, F., Takeya, M., Okabe, H. & Takatsuki, K.

514 Temporal sequence and cellular origin of interleukin-2 stimulated cytokine gene expression
Saraya, K.A. & Balkwill, F.R.

522 Cell killing and DNA damage by etoposide in Chinese hamster V79 monolayers and spheroids: influence of growth kinetics, growth environment and DNA packaging
Olive, P.L., Banáth, J.P. & Evans, H.H.

531 Transforming growth factor-β1 as a signal for induction of cell death by apoptosis
Brusch, W., Oberhammer, F., Jirtle, R.L., Askari, M., Sedivy, R., Grasl-Kraupp, B., Purchio, A.F. & Schulte-Hermann, R.

537 Saturation of tumour cell surface receptors for urokinase-type plasminogen activator by amino- terminal fragment and subsequent effect on reconstituted basement membranes invasion
Kobayashi, H., Ohi, H., Shinohara, H., Sugimura, M., Fujii, T., Terao, T., Schmitt, M., Goretzki, L., Chucholowski, N., Jänicke, F. & Graeff, H.

545 Inhibition of basal and TGFβ-induced fibroblast collagen synthesis by antineoplastic agents. Implications for wound healing
Hendriks, T., Martens, M.F.W.C., Huyben, C.M.L.C. & Wobbes, T.

551 Frequent loss of heterozygosity on chromosome 6 in human ovarian carcinoma
Foulkes, W.D., Ragoussis, J., Stamp, G.W.H., Allan, G.J. & Trowsdale, J.

Clinical Oncology/Epidemiology

560 Effective treatment of malignant hypercalcaemia with a single intravenous infusion of clodronate
O'Rourke, N.P., McCloskey, E.V., Vasikaran, S., Eyres, K., Fern, D. & Kanis, J.A.

564 Dynamic test with recombinant interferon-alpha-2b: effect on 90K and other tumour-associated antigens in cancer patients without evidence of disease
Natoli, C., Garufi, C., Tinari, N., D'Egidio, M., Lesti, G., Gaspari, I.A., Visini, R. & Iacobelli, S.

568 Salvage treatment in male patients with germ cell tumours
Josefsen, D., Ous, S., Høie, J., Stenwig, A.E. & Fossa, S.D.

573 Clinical profile and problems of management of 108 cases of germ cell tumours of testis at Institute Rotary Cancer Hospital, All India Institute of Medical Sciences New Delhi 1985–1990
Raina, V., Shukla, N.K., Rath, G.K., Gupta, N.P., Mishra, M.C., Chaterjee, T.K. & Kripalani, A.K.

578 Reduced expression of TGFβ is associated with advanced disease in transitional cell carcinoma
Coombs, L.M., Pigott, D.A., Eydmann, M.E., Proctor, A.J. & Knowles, M.A.

585 Cytological reporting of cervical abnormalities according to endocervical status
Mitchell, H. & Medley, G.

589 Gastric cancer with p53 overexpression has high potential for metastasising to lymph nodes
Kakeji, Y., Korenaga, D., Tsujitani, S., Baba, H., Anai, H., Maehara, Y. & Sugimachi, K.

594 The Centre H. Becquerel studies in inflammatory non metastatic breast cancer. Combined modality approach in 178 patients
Chevallier, B., Bastit, P., Graic, Y., Menard, J.F., Dauce, J.P., Julien, J.P., Clavier, B., Kunlin, A. & D'Anjou, J.

602 Use of semi-quantitative PCR for human papillomavirus DNA type 16 to identify women with high grade cervical disease in a population presenting with a mildly dyskaryotic smear report
Bavin, P.J., Giles, J.A., Deery, A., Crow, J., Griffiths, P.D., Emery, V.C. & Walker, P.G.

606 Effect of tamoxifen on Ki67 labelling index in human breast tumours and its relationship to oestrogen and progesterone receptor status
Clarke, R.B., Laidlaw, I.J., Jones, L.J., Howell, A. & Anderson, E.

612 Perception of risk in women with a family history of breast cancer
Evans, D.G.R., Burnell, L.D., Hopwood, P. & Howell, A.

615 Cancer mortality and morbidity in employees of the United Kingdom Atomic Energy Authority, 1946–86
Fraser, P., Carpenter, L., Maconochie, N., Higgins, C., Booth, M. & Beral, V.

625 Prognostic significance of c-erbB-2 expression in node negative breast cancer
Bianchi, S., Paglierani, M., Zampi, G., Cardona, G., Cataliotti, L., Bonardi, R. & Ciatto, S.

630 Patient compliance with prolonged low-dose oral etoposide for small cell lung cancer
Lee, C.R., Nicholson, P.W., Souhami, R.L., Slevin, M.L., Hall, M.R. & Deshmukh, A.A.

635 Female hormone utilisation and risk of hepatocellular carcinoma
Tavani, A., Negri, E., Parazzini, F., Franceschi, S. & La Vecchia, C.

Correspondence

638 Cisplatin in breast cancer
Willemse, P., Sleijffer, D.Th., Mulder, N.H., de Vries, E.G.E.

Volume 67, No. 4 April 1993

Editorial

639 Health services research in oncology
Selby, P.

641 P glycoprotein (P-gp) and drug resistance – time for reappraisal?
Kaye, S.B.

Experimental Oncology

644 The influence of high dose hydroxyurea on the incorporation of 5-iodo-2-deoxyuridine (IUdR) by human bone marrow and tumour cells *in vivo*
Philip, P.A., Kaklamanis, L., Carmichael, J., Tonkin, K., Morrison, H., Gatter, K. & Harris, A.L.

650 Tumour necrotisation in nude mice xenografts by the reversible protein synthesis inhibitor Zilascorb(^{2}H)
Pettersen, E.O., Larsen, R.O., Dornish, J.M., Børretzen, B., Juul, M.E.H., Aastveit, T.E., Nesland, J.M., Rofstad, E.K. & Oftebro, R.

657 Ki-S1, a novel proliferative marker: flow cytometric assessment of staining in human breast carcinoma cells
Camplejohn, R.S., Brock, A., Barnes, D.M., Gillett, C., Raikundalia, B., Kreipe, H. & Parwaresch, M.R.

663 Inhibitory effect of a cholecystokinin antagonist on pancreatic carcinogenesis after pancreatobiliary diversion
Watanapa, P., Flaks, B., Oztas, H., Deprez, P.H., Calam, J. & Williamson, R.C.N.

668 Implantation treatment method of slow release anticancer doxorubicin containing hydroxyapatite (DOX-HAP) complex. A basic study of a new treatment for hepatic cancer
Kunieda, K., Seki, T., Nakatani, S., Wakabayashi, M., Shiro, T., Inoue, K., Sougawa, M., Kimura, R. & Harada, K.

674 Uncoupling of growth inhibition and differentiation in dexamethasone-treated human rhabdomyosarcoma cells
De Giovanni, C., Lollini, P.-L., Dolcetti, R., Landuzzi, L., Nicoletti, G., D'Andrea, E., Scotland, K. & Nanni, P.

680 Increased protein degradation and decreased protein synthesis in skeletal muscle during cancer cachexia
Smith, K.L. & Tisdale, M.J.

686 Characterisation of UGP and its relationship with beta-core fragment
Kardana, A., Bagshawe, K.D., Coles, B., Read, D. & Taylor, M.

693 Gallium-67 radiotoxicity in human U937 lymphoma cells
Jonkhoff, A.R., Huijgens, P.C., Versteegh, R.T., van Dieren, E.B., Ossenkoppele, G.J., Martens, H.J.M. & Teule, G.J.J.

701 Cellular accumulation of ^{18}F-labelled boronophenylalanine depending on DNA synthesis and melanin incorporation: a double-tracer microautoradiographic study of B16 melanomas *in vivo*
Kubota, R., Yamada, S., Ishiwata, K., Tada, M., Ido, T. & Kubota, K.

706 Radioimmunolocalisation in breast cancer using the gene product of c-*erb*B2 as the target antigen
Allan, S.M., Dean, C., Fernando, I., Eccles, S., Styles, J., McCready, V.R., Baum, M. & Sacks, N.

713 Production of anti-breast cancer monoclonal antibodies using a glutathione-S-transferase-MUC1 bacterial fusion protein
Apostolopoulos, V., Xing, P.-X., Trapani, J.A. & McKenzie, I.F.C.

721 Production of matrix metalloproteinase 9 (92-kDa gelatinase) by human oesophageal squamous cell carcinoma in response to epidermal growth factor
Shima, I., Sasaguri, Y., Kusukawa, J., Nakano, R., Yamana, H., Fujita, H., Kakegawa, T. & Morimatsu, M.

728 Effect of polyunsaturated fatty acids on the drug sensitivity of human tumour cell lines resistant to either cisplatin or doxorubicin
Plumb, J.A., Luo, W. & Kerr, D.J.

734 The effect of flunarizine on erythrocyte suspension viscosity under conditions of extreme hypoxia, low pH, and lactate treatment
Kavanagh, B.D., Coffey, B.E., Needham, D., Hochmuth, R.M. & Dewhirst, M.W.

742 Cisplatin-DNA damage recognition proteins in human tumour extracts
Bissett, D., McLaughlin, K., Kelland, L.R. & Brown, R.

Clinical Oncology/Epidemiology

749 Immunohistochemical localisation of pS2 protein in ductal carcinoma *in situ* and benign lesions of the breast
Luqmani, Y.A., Campbell, T., Soomro, S., Shousha, S., Rio, M.C. & Coombes, R.C.

754 An assessment of the reliability and reproducibility of measurement of potential doubling times (T_{pot}) in human colorectal cancers
Wilson, M.S., West, C.M.L., Wilson, G.D., Roberts, S.A., James, R.D. & Schofield, P.F.

760 Tumour markers for prediction of survival and monitoring of remission in small cell lung cancer
Johnson, P.W.M., Joel, S.P., Love, S., Butcher, M., Pandian, M.R., Squires, L., Wrigley, P.F.M. & Slevin, M.L.

767 Prognostic significance of cathepsin-D in patients with breast cancer
Winstanley, J.H.R., Leinster, S.J., Cooke, T.G., Westley, B.R., Platt-Higgins, A.M. & Rudland, P.S.

773 Performance status assessment in cancer patients. An inter-observer variability study
Sørensen, J.B., Klee, M., Palshof, T. & Hansen, H.H.

776 Primary gastrointestinal non-Hodgkin's lymphoma: a review of 175 British National Lymphoma Investigation cases
Morton, J.E., Leyland, M.J., Vaughan Hudson, G., Vaughan Hudson, B., Anderson, L., Bennett, M.H. & MacLennan, K.A.

783 Frequency of adult T-cell leukaemia/lymphoma and HTLV-I in Ibadan, Nigeria
Williams, C.K.O., Alexander, S.S., Bodner, A., Levine, A., Saxinger, C., Gallo, R.C. & Blattner, W.A.

787 Carbon-11-methionine and PET in evaluation of treatment response of breast cancer
Huovinen, R., Leskinen-Kallio, S., Någren, K., Lehikoinen, P., Ruotsalainen, U. & Teräs, M.

792 β-2 Microglobulin: A prognostic factor in diffuse aggressive non-Hodgkin's lymphomas
Johnson, P.W.M., Whelan, J., Longhurst, S., Stepniewska, K., Matthews, J., Amess, J., Norton, A., Rohatiner, A.Z.S. & Lister, T.A.

798 Effect of alternating combination chemotherapy consisting of cyclophosphamide, doxorubicin, vincristine, cisplatin, and etoposide for small cell lung cancer on hematopoietic progenitors in the peripheral blood
Shimizu, E., Yamamoto, A., Takahashi, Y., Maniwa, K., Yoshida, S., Mukai, J., Takaue, Y. & Ogura, T.

801 Chemotherapy and survival in advanced breast cancer: the inclusion of doxorubicin in Cooper type regimens
A'Hern, R.P., Smith, I.E. & Ebbs, S.R.

806 The clinical epidemiology of superficial bladder cancer
Kiemeney, L.A.L.M., Witjes, J.A., Verbeek, A.L.M., Heijbroek, R.P., Debruyne, F.M.J. & the members of the Dutch South-East Cooperative Urological Group

813 Wilms' tumour and parental age: a report from the National Wilms' Tumour Study
Olson, J.M., Breslow, N.E. & Beckwith, J.B.

819 The reliability of Cancer Registry records
Gulliford, M.C., Bell, J., Bourne, H.M. & Petruckevitch, A.

822 Long term survival of small cell lung cancer patients after chemotherapy
van der Gaast, A., Postmus, P.E., Burghouts, J., van Bolhuis, C., Stam, J. & Splinter, T.A.W.

825 High dose, dose-intensive chemotherapy with doxorubicin and cyclophosphamide for the treatment of advanced breast cancer
Ferguson, J.E., Dodwell, D.J., Seymour, A.-M., Richards, M.A. & Howell, A.

830 Human papillomavirus, *Herpes simplex* virus and other potential risk factors for cervical cancer in a high-risk area (Greenland) and a low-risk area (Denmark) – a second look
Kjaer, S.K., de Villiers, E.-M., Çağlayan, H., Svare, E., Haugaard, B.J., Engholm, G., Christensen, R.B., Møller, K.A., Poll, P., Jensen, H., Vestergaard, B.F., Lynge, E. & Jensen, O.M.

838 Does the month of diagnosis affect survival of cancer patients?
Sankila, R., Joensuu, H., Pukkala, E. & Toikkanen, S.

842 Breast-feeding and breast cancer in the offspring
Ekbom, A., Hsieh, C.-C., Trichopoulos, D., Yen, Y.-Y., Petridou, E. & Adami, H.-O.

846 Selected physical activities and the risk of endometrial cancer
Levi, F., La Vecchia, C., Negri, E. & Franceschi, S.

852 Receiver operating characteristic (ROC) curve analysis of the tumour markers CEA, CA 50 and CA 242 in pancreatic cancer; results from a prospective study
Pasanen, P.A., Eskelinen, M., Partanen, K., Pikkarainen, P., Penttilä, I. & Alhava, E.

856 Advanced breast cancer: use of resources and cost implications
Richards, M.A., Braysher, S., Gregory, W.M. & Rubens, R.D.

861 Supportive care and the use of relaxation therapy in a district cancer service
McIllmurray, M.B. & Holdcroft, P.E.

Correspondence

865 Adoptive tumour immunotherapy using human CD4$^+$ T-cells
Gold, J.E. & Osband, M.E.

866 Response to the letter from Drs Gold and Osband
Nishimura, T., Nakamura, Y. & Habu, S.

Book Reviews

868 Urological oncology – dilemmas and developments
Clarke, P.I.

Gynaecological oncology
Osborne, R.J.

The insulin-like growth factors, structure and biological functions
Reeve, J.G.

Volume 67, No. 5 May 1993

Reviews

869 Antisense technology for cancer therapy: does it make sense?
Carter, G. & Lemoine, N.R.

877 Experimental pancreatic hyperplasia and neoplasia: effects of dietary and surgical manipulation
Watanapa, P. & Williamson, R.C.N.

Experimental Oncology

885 A rodent model for testicular involvement in acute lymphoblastic leukaemia
Jahnukainen, K., Morris, I., Roe, S., Salmi, T.T., Mäkipernaa, A. & Pöllänen, P.

893 Inhibition by a new bisphosphonate (YM175) of bone resorption induced by the MBT-2 tumour of mice
Nemoto, R., Nishijima, Y., Uchida, K. & Koiso, K.

898 Fluorescence and photodynamic effects of bacteriochlorin *a* observed *in vivo* in 'sandwich' observation chambers
van Leengoed, H.L.L.M., Schuitmaker, J.J., van der Veen, N., Dubbelman, T.M.A.R. & Star, W.M.

904 The role of the cell-cell adhesion molecule E-cadherin in large bowel tumour cell invasion and metastasis
Kinsella, A.R., Green, B., Lepts, G.C., Hill, C.L., Bowie, G. & Taylor, B.A.

910 Complementation of two related tumour cell classes during experimental metastasis tagged with different histochemical marker genes
Lin, W.-C., O'Connor, K.L. & Culp, L.A.

922 Detection of bcl-2/JH rearrangement in follicular and diffuse lymphoma: concordant results of peripheral blood and bone marrow analysis at diagnosis
Yuan, R., Dowling, P., Zucca, E., Diggelmann, H. & Cavalli, F.

926 Analysis of the tumorigenic potential of common marmoset lymphoblastoid cells expressing a constitutively activated c-*myc* gene
Hotchin, N.A., Wedderburn, N., Roberts, I., Thomas, J.A., Bungey, J.A., Naylor, B. & Crawford, D.H.

933 Mechanisms of selective killing of neuroblastoma cells by natural killer cells and lymphokine activated killer cells. Potential for residual disease eradication
Foreman, N.K., Rill, D.R., Coustan-Smith, E., Douglass, E.C. & Brenner, M.K.

939 Interleukin-6 cDNA transfected Lewis lung carcinoma cells show unaltered net tumour growth rate but cause weight loss and shorten survival in syngenic mice
Ohe, Y., Podack, E.R., Olsen, K.J., Miyahara, Y., Miura, K., Saito, H., Koishihara, Y., Ohsugi, Y., Ohira, T., Nishio, K. & Saijo, N.

945 Norgestrel and gestodene stimulate breast cancer cell growth through an oestrogen receptor mediated mechanism
Catherino, W.H., Jeng, M.H. & Jordan, V.C.

953 Effect of reconstituted basement membrane components on the growth of a panel of human tumour cell lines in nude mice
Topley, P., Jenkins, D.C., Jessup, E.A. & Stables, J.N.

959 Constitutive expression of multidrug resistance in human colorectal tumours and cell lines
Kramer, R., Weber, T.K., Morse, B., Arceci, R., Staniunas, R., Steele Jr, G. & Summerhayes, I.C.

969 *In vitro* testing of chemotherapeutic drug combinations in acute myelocytic leukaemia using the fluorometric microculture cytotoxicity assay (FMCA)
Larsson, R., Fridborg, H., Kristensen, J., Sundström, C. & Nygren, P.

975 Augmentation of tumour delivery of macromolecular drugs with reduced bone marrow delivery by elevating blood pressure
Li, C.J., Miyamoto, Y., Kojima, Y. & Maeda, H.

981 Modification of tumour blood flow using the hypertensive agent, angiotensin II
Tozer, G.M. & Shaffi, K.M.

989 *In vitro* antitumour activity of the novel imidazoisoquinoline SDZ 62-434
Brunton, V.G. & Workman, P.

996 Lack of nephrotoxicity of oral ammine/amine platinum (IV) dicarboxylate complexes in rodents
McKeage, M.J., Morgan, S.E., Boxall, E.E., Munei, B.A., Hard, G.C. & Harrap, K.R.

1001 Radiation-induced transient cisplatin resistance in murine fibrosarcoma cells associated with elevated metallothionein content
Eichholtz-Wirth, H., Reidel, G. & Hietel, B.

1007 Loss of constitutional heterozygosity on chromosomes 5 and 17 in cholangiocarcinoma
Ding, S.-F., Delhanty, J.D.A., Bowles, L., Dooley, J.S., Wood, C.B. & Habib, N.A.

1011 Inhibition by amiloride of gastric carcinogenesis induced by N-methyl-N′-nitro-N-nitrosoguanidine in Wistar rats
Tatsuta, M., Iishi, H., Baba, M., Uehara, H., Nakaizumi, A. & Taniguchi, H.

1015 Expression of transforming growth factor β (TGFβ) receptors and expression of $TGF\beta_1$, $TGF\beta_2$ and $TGF\beta_3$ in human small cell lung cancer cell lines
Damstrup, L., Rygaard, K., Spang-Thomsen, M. & Skovgaard Poulson, H.

1022 Cytofluorometric determination of thymidine kinase activity in a mixture of normal and neoplastic cells
Hengstschläger, M. & Wawra, E.

1026 Opposing behavioural alterations in male and female transgenic TGFα mice: association with tumour susceptibility
Hilakivi-Clarke, L.A., Arora, P.K., Clarke, R., Wright, A., Lippman, M.E. & Dickson, R.B.

Clinical Oncology/Epidemiology

1031 Oral verapamil with chemotherapy for advanced non-small cell lung cancer: a randomised study
Millward, M.J., Cantwell, B.M.J., Munro, N.C., Robinson, A., Corris, P.A. & Harris, A.L.

1036 Comparability of surrogate and self-reported information on melanoma risk factors
Aitken, J.F., Green, A., MacLennan, R., Jackman, L. & Martin, N.G.

1042 Flow cytometric analysis of ploidy in colorectal cancer: a multicentric experience
Silvestrini, R., D'Agnano, I., Faranda, A., Costa, A., Zupi, G., Cosimelli, M., Quagliuolo, V., Giannarelli, D., Gennari, L. & Cavaliere, R.

1047 The comprehensive assessment of health status in survivors of childhood cancer: application to high-risk acute lymphoblastic leukaemia
Feeny, D., Leiper, A., Barr, R.D., Furlong, W., Torrance, G.W., Rosenbaum, P. & Weitzman, S.

1053 Melanocytic naevi and melanoma in survivors of childhood cancer
Green, A., Smith, P., McWhirter, W., O'Regan, P., Battistutta, D., Yarker, M.E. & Lape, K.

1058 Specific expression of tenascin in human colonic neoplasms
Sakai, T., Kawakatsu, H., Hirota, N., Yokoyama, T., Sakakura, T. & Saito, M.

1065 The value of the human milk fat globule membrane antigen $HMFG_2$ in epithelial ovarian cancer monitoring: comparison with CA125
Fisken, J., Roulston, J.E., Sturgeon, C., Badley, R.A., Jönrup, I., Aspinall, L. & Leonard, R.C.F.

1071 Squamous carcinoma of the head and neck: cured fraction and median survival time as functions of age, sex, histologic type, and node status
Gamel, J.W. & Jones, A.S.

1076 Cathepsin D in breast secretions from women with breast cancer
Sánchez, L.M., Ferrando, A.A., Diez-Itza, I., Vizoso, F., Ruibal, A. & López-Otin, C.

1082 Cervical intraepithelial neoplasia in patients with breast cancer: a cytological and colposcopic study
Hughes, R.G., Colquhoun, M., Alloub, M., Chetty, U. & Smart, G.E.

1086 How fatal is breast cancer? A prospective study of breast carcinoma deaths in Tayside
Parham, D.M., Robertson, A.J., Guthrie, W. & Swanson Beck, J.

1090 Mortality of a cohort of French uranium miners exposed to relatively low radon concentrations
Tirmarche, M., Raphalen, A., Allin, F., Chameaud, J. & Bredon, P.

1098 Primary malignant mediastinal germ cell tumours: improved prognosis with platinum-based chemotherapy and surgery
Childs, W.J., Goldstraw, P., Nicholls, J.E., Dearnaley, D.P. & Horwich, A.

1102 A double blind placebo controlled trial of medroxyprogesterone acetate (MPA) in cancer cachexia
Downer, S., Joel, S., Allbright, A., Plant, H., Stubbs, L., Talbot, D. & Slevin, M.

1106 Karyotypic abnormalities in tumours of the pancreas
Bardi, G., Johansson, B., Pandis, N., Mandahl, N., Bak-Jensen, E., Andrén-Sandberg, Å., Mitelman, F. & Heim, S.

1113 Pre- and post-treatment sexual life in testicular cancer patients: a descriptive investigation
Aass, N., Grünfeld, B., Kaalhus, O. & Fosså, S.D.

1118 Early sCD8 plasma levels during subcutaneous rIl-2 therapy in patients with renal cell carcinoma correlate with response
Martens, A., Janssen, R.A.J., Sleijfer, D.Th., Heijn, A.A., Mulder, N.H., The, T.H. & de Leij, L.

1122 First experience with FGF-3 (INT-2) amplification in women with epithelial ovarian cancer
Rosen, A., Sevelda, P., Klein, M., Dobianer, K., Hruza, C., Czerwenka, K., Hanak, H., Vavra, N., Salzer, H., Leodolter, S., Medl, M. & Spona, J.

1126 Activity of type IV collagenases in benign and malignant breast disease
Davies, B., Miles, D.W., Happerfield, L.C., Naylor, M.S., Bobrow, L.G., Rubens, R.D. & Balkwill, F.R.

1132 The use of tumour markers CEA, CA-195 and CA-242 in evaluating the response to chemotherapy in patients with advanced colorectal cancer
Ward, U., Primrose, J.N., Finan, P.J., Perren, T.J., Selby, P., Purves, D.A. & Cooper, E.H.

1136 Multivariate analysis of prognostic factors in patients with non HIV-related primary cerebral lymphoma. A proposal for a prognostic scoring
Blay, J.-Y., Lasset, C., Carrie, C., Chauvin, F., Coiffier, B., Gisselbrecht, C., Clavel, M., Rebattu, P., Brunat-Mentigny, M., Philip, T. & Biron, P.

1142 Effect of rehydration of guaiac-based faecal occult blood testing in colorectal cancer screening
Castiglione, G., Biagnini, M., Barchielli, A., Grazzini, G., Mazzotta, A., Salvadori, P., Scillone, L. & Ciatto, S.

1145 Phosphomonoester is associated with proliferation in human breast cancer: a ^{31}P MRS study
Kalra, R., Wade, K.E., Hunds, L., Styles, P., Camplejohn, R., Greenall, M., Adams, G.E., Harris, A.L. & Radda, G.K.

Correspondence

1154 Phenoxy herbicides, chlorophenols, soft-tissue sarcoma (STS) and malignant lymphoma
Hardell, L.

1156 Reply to the letter from Professor Hardell
Smith, J.G. & Christophers, A.J.

1157 5-FU toxicity and nutritional deficiencies
Stenram, U.

Book Reviews

1158 Inositol phosphates and calcium signalling
Whetton, A.D.

Practical paediatric oncology
Broadbent, V.

Preventing cancers
Cleton, F.J.

The basic science of oncology
Twentyman, P.R.

1160 **Books Received**

Volume 67, No. 6 June 1993

Reviews

1163 SR 4233 (Tirapazamine): a new anticancer drug exploiting hypoxia in solid tumours
Brown, J.M.

1171 Cellular accumulation of the anticancer agent cisplatin: a review
Gately, D.P. & Howell, S.B.

Experimental Therapeutics

1177 Biological activities of phthalocyanines – XVI. Tetrahydroxy- and tetraalkylhydroxy zinc phthalocyanines. Effect of alkyl chain length on *in vitro* and *in vivo* photodynamic activities
Boyle, R.W., Leznoff, C.C. & van Lier, J.E.

1182 Monoclonal antibodies reacting with the MUC2 mucin core protein
Devine, P.L., McGuckin, M.A., Birrell, G.W., Whitehead, R.H., Sachdev, G.P., Shield, P. & Ward, B.G.

1189 Differential modulation of doxorubicin toxicity to multidrug and intrinsically drug resistant cell lines by anti-oestrogens and their major metabolites
Kirk, J., Houlbrook, S., Stuart, N.S.A., Stratford, I.J., Harris, A.L. & Carmichael, J.

1196 Expression in mammalian cells of the *Escherichia coli* O^6 alkylguanine-DNA-alkyltransferase gene *ogt* reduces the toxicity of alkylnitrosoureas
Harris, L.C. & Margison, G.P.

1203 Calmodulin inhibitor trifluoperazine in combination with doxorubicin induces the selection of tumour cells with the multidrug resistant phenotype
Kamath, N., Grabowski, D., Ford, J. & Ganapathi, R.

1209 Involvement of basic fibroblast growth factor in suramin-induced inhibition of V79/AP4 fibroblast cell proliferation
Bernardini, N., Giannessi, F., Bianchi, F., Dolfi, A., Lupetti, M., Citti, L., Danesi, R. & Del Tacca, M.

1217 Cytokinetic analysis of lung cancer by *in vivo* bromodeoxyuridine labelling
Tinnemans, M.M.F.J., Schutte, B., Lenders, M.-H.J.H., Ten Velde, G.P.M., Ramaekers, F.C.S. & Blijham, G.H.

1223 Intensity of class I antigen expression on human tumour cell lines and its relevance to the efficiency of non-MHC-restricted killing
Nouri, A.M.E., Hussain, R.F., Dos Santos, A.V.L., Mansouri, M. & Oliver, R.T.D.

1229 Caffeine potentiates the lethality of tumour necrosis factor in cancer cells
Belizario, J.E., Tilly, J.L. & Sherwood, S.W.

1236 Recombinations of chromosomal bands 6p21 and 14q24 characterise pulmonary hamartomas
Johansson, M., Dietrich, C., Mandahl, N., Hambraeus, G., Johansson, L., Clausen, P.P., Mitelman, F. & Heim, S.

1242 Refinement of an indirect immunotoxin assay of monoclonal antibodies recognising the human small cell lung cancer cluster 2 antigen
Derbyshire, E.J., de Leij, L. & Wawrzynczak, E.J.

1248 Targeting of saporin to CD25-positive normal and neoplastic lymphocytes by an anti-saporin/anti-CD25 bispecific monoclonal antibody: *in vitro* evaluation
Tazzari, P.L., Zhang, S., Chen, Q., Sforzini, S., Bolognesi, A., Stirpe, F., Xie, H., Moretta, A. & Ferrini, S.

1254 Comparison between p53 staining in tissue sections and p53 proteins levels measured by an ELISA technique
Vojtěšek, B., Fisher, C.J., Barnes, D.M. & Lane, D.P.

1259 Loss of heterozygosity at 11p13 in Wilms' tumours does not necessarily involve mutations in the WT1 gene
Cowell, J.K., Groves, N. & Baird, P.

1262 Rapid detection of allele loss in colorectal tumours using microsatellites and fluorescent DNA technology
Cawkwell, L., Bell, S.M., Lewis, F.A., Dixon, M.F., Taylor, G.R. & Quirke, P.

1268 Fibroblast stimulation of breast cancer cell growth in a serum-free system
Ryan, M.C., Orr, D.J.A. & Horgan, K.

1274 Gene mutations and increased levels of p53 protein in human squamous cell carcinomas and their cell lines
Burns, J.E., Baird, M.C., Clark, L.J., Burns, P.A., Edington, K., Chapman, C., Mitchell, R., Robertson, G., Soutar, D. & Parkinson, E.K.

1285 A new anticancer platinum compound, (−)-(R)-2-aminomethyl-pyrrolidine(1,1-cyclobutanedicarboxylato) platinum(II): DNA interstrand crosslinking, repair and lethal effects in normal human, Fanconi's anaemia and xeroderma pigmentosum cells
Fujiwara, Y., Nakamura, M. & Yokoo, S.

1293 Anti-proliferative effects of the arotinoid Ro 40-8757 on human cancer cell lines *in vitro*
Eliason, J.F., Kaufmann, F. (posthumous), Tanaka, T. & Tsukaguchi, T.

1299 Depletion of O^6-alkylguanine-DNA alkyltransferase correlates with potentiation of temozolomide and CCNU toxicity in human tumour cells
Baer, J.C., Freeman, A.A., Newlands, E.S., Watson, A.J., Rafferty, J.A. & Margison, G.P.

1303 Altered phosphorylation status, phospholipid metabolism and gluconeogenesis in the host liver of rats with prostate cancer: a ^{31}P magnetic resonance spectroscopy study
Dagnelie, P.C., Bell, J.D., Williams, S.C.R., Bates, T.E., Abel, P.D. & Foster, C.S

1310 Pharmacokinetic studies in mice with ICI D0490, a novel recombinant ricin A-chain immunotoxin
Calvete, J.A., Newell, D.R., Charlton, C.J. & Wright, A.F.

1316 Examination by laser scanning confocal fluorescence imaging microscopy of the subcellular localisation of anthracyclines in parent and multidrug resistant cell lines
Coley, H.M., Amos, W.B., Twentyman, P.R. & Workman, P.

1324 Evidence for field change in oral cancer based on cytokeratin expression in clinically normal epithelium
Ogden, G.R., Lane, E.B., Hopwood, D.V. & Chisholm, D.M.

1331 Effective removal of SCLC cells from human bone marrow. Use of four monoclonal antibodies and immmunomagnetic beads
Myklebust, A.T., Pharo, A. & Fodstad, Ø.

1337 Resistance to flow through tissue-isolated transplanted rat tumours located in two different sites
Sensky, P.L., Prise, V.E., Tozer, G.M., Shaffi, K.M. & Hirst, D.G.

Clinical Oncology/Epidemiology

1342 Flavone acetic acid (FAA) with recombinant interleukin-2 (rIL-2) in advanced malignant melanoma: I. Clinical and vascular studies
O'Reilly, S.M., Rustin, G.J.S., Farmer, K., Burke, M., Hill, S. & Denekamp, J.

1346 Flavone acetic acid (FAA) with recombinant interleukin-2 (rIL-2) in advanced malignant melanoma III: cytokine studies
Haworth, C., O'Reilly, S.M., Chu, E.,. Rustin, G.J.S. & Feldmann, M.

1351 Flavone acetic acid (FAA) with recombinant interleukin-2 (rIL-2) in advanced malignant melanoma IV: Pharmacokinetics and toxicity of flavone acetic acid and its metabolites
Stratford, M.R.L., Rustin, G.J.S., Dennis, M.F., Watfa, R.R., Howells, N. & O'Reilly, S.M.

1356 Sequential administration of varying doses of dacarbazine and fotemustine in advanced malignant melanoma
Lee, S.M., Margison, G.P., Woodcocok, A.A. & Thatcher, N.

1361 CA 125 half-life in ovarian cancer: a multivariate survival analysis
Yedema, C.A., Kenemans, P., Voorhorst, F., Bon, G., Schijf, C., Beex, L., Verstraeten, A., Hilgers, J. & Vermorken, J.

1368 Further analysis of predictive value of *Helix pomatia* lectin binding to primary breast cancer for axillary and internal mammary lymph node metastases
Noguchi, M., Thomas, M., Kitagawa, H., Kinoshita, K., Ohta, N., Nagamori, M. & Miyazaki, I.

1372 Analysis of MHC class I and II expression in relation to presence of HPV genotypes in premalignant and malignant cervical lesions
Cromme, F.V., Meijer, C.J.L.M., Snijders, P.J.F., Uyterlinde, A., Kenemans, P., Helmerhorst, Th., Stern, P.L., van den Brule, A.J.C. & Walboomers, J.M.M.

1381 Duplex/colour Doppler sonography: measurement of changes in hepatic arterial haemodynamics following intra-arterial angiotensin II infusion
Leen, E., Angerson, W.J., Warren, H.W., Goldberg, J.A., Sutherland, G.R., Cooke, T.G. & McArdle, C.S.

1385 A randomised study of bolus *vs* continuous pump infusion of ifosfamide and doxorubicin with oral etoposide for small cell lung cancer
Anderson, H., Hopwood, P., Prendiville, J., Radford, J.A., Thatcher, N. & Ashcroft, L.

1391 Immunoscintigraphy of small-cell lung cancer: a study using technetium and indium labelled anti-carcinoembryonic antigen monoclonal antibody preparations
Macmillan, C.H., Perkins, A.C., Wastie, M.L., Leach, I.H. & Morgan, D.A.L.

1395 High prevalence of mutations at codon 249 of the p53 gene in hepatocellular carcinomas from Senegal
Coursaget, P., Depril, N., Chabaud, M., Nandi, R., Mayelo, V., LeCann, P. & Yvonnet, B.

1398 Interstitial photodynamic therapy. Clinical experience with diffusing fibres in the treatment of cutaneous and subcutaneous tumours
Lowdell, C.P., Ash, D.V., Driver, I. & Brown, S.B.

1404 Immunotherapy with subcutaneous low-dose interleukin-2 and the pineal indole melatonin as a new effective therapy in advanced cancers of the digestive tract
Lissoni, P., Barni, S., Tancini, G., Ardizzoia, A., Rovelli, F., Cazzaniga, M., Brivio, F., Piperno, A., Aldeghi, R., Fossati, D., Characiejus, D., Kothari, L., Conti, A. & Maestroni, G.J.M.

1408 The prognostic significance of transforming growth factors in human breast cancer
Murray, P.A., Barrett-Lee, P., Travers, M., Luqmani, Y., Powles, T. & Coombes, R.C.

1413 Glutathione and glutathione S-transferases in Barrett's epithelium
Peters, W.H.M., Roelofs, H.M.J., Hectors, M.P.C., Nagengast, F.M. & Jansen, J.B.M.J.

1418 Immunohistochemical expression of the mucin-type glycoprotein A-80 and prognosis in human breast cancer
Eriksson, E.T., Schimmelpenning, H., Rutqvist, L.-E., Johansson, H. & Auer, G.U.

1423 Clinical evaluation of serum tumour marker CA 242 in non-small cell lung cancer
Pujol, J.-L., Cooper, E.H., Lehmann, M., Purves, D.A., Dan-Aouta, M., Midander, J., Godard, P. & Michel, F.-B.

1430 Weekly chemotherapy in advanced prostatic cancer
Francini, G., Petrioli, R., Manganelli, A., Cintorino, M., Marsili, S., Aquino, A. & Mondillo, S.

1437 Amino acid infusion blocks renal tubular uptake of an indium-labelled somatostatin analogue
Hammond, P.J., Wade, A.F., Gwilliam, M.E., Peters, A.M., Myers, M.J., Gilbey, S.G., Bloom, S.R. & Calam, J.

Correspondence

1440 UK Nutritional Epidemiology Group Guidelines
Nelson, M., Margetts, B.M. & Black, A.E.

Book Reviews

1441 Urological Oncology, *Bullock, N.*
Cancer in Children. Clinical Management. 3rd Edition. *Pinkerton, C.R.*
Bowel Cancer. The Facts, *Collier, St.J.*
Current issues in Cancer, *Falk, S.*
Cytokine Therapy, *Woll, P.J.*

1444 **Corrigendum**

1445 **Cumulative Contents**

1453 **Author Index**